

# Double Barrier Pressure Vessel



The LV Switch Housing is a highly survivable, versatile, robust pressure vessel for use in rugged subsea environments.

Utilising a combination of COTS components and J+S extensive capability in high integrity vessel design and manufacture, the LV switch housing provides a maintenance free, secure and safe enclosure for electrical components in harsh environments.

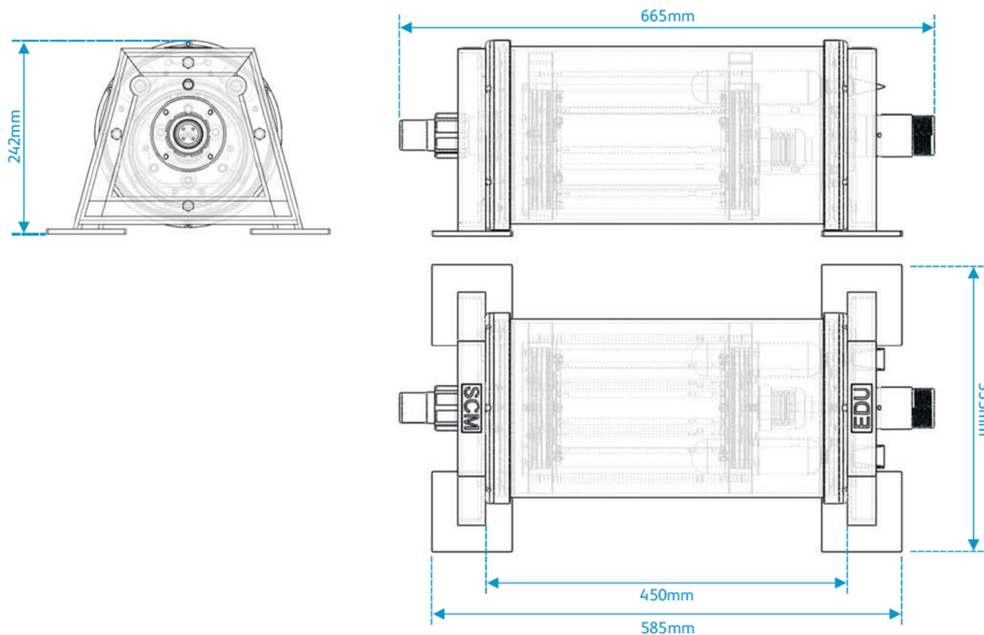
The design and development technology behind this unit means that it can be scaled to suit individual client needs. This unit can be adapted to manage voltages in the LV, MV and HV ranges.

### Key features:

- Dual redundant pressure barrier design for rugged environments
- Oil filled pressure balanced exterior
- Single atmosphere interior housing
- High integrity polyethylene injection mould penetrator using proven military technology
- Nitrogen purged inner chamber prevents oxidisation within internal pressure chamber
- Tronic diver mate connectors for ease of installation
- Safety pressure valve to remove potential pressure differentials within the exterior vessel
- Pressure balancing using standard internal accumulator bladders
- Uses proven “commercial off the shelf” components throughout
- Constructed in 316L stainless steel for excellent corrosion resistance and longevity

# Specifications

## Double Barrier Pressure Vessel



### System Specifications:

Rated depth:	300 metres
Mechanical construction:	316L stainless steel or titanium
Connectors:	Tronic MCE/DigiTRON bulkhead connectors
Pressure balancing fluid type:	Texaco uninhibited transformer oil
Compensation method:	Internal nitrile accumulator bladder
Single atmosphere penetrator:	High integrity polyethylene mould
Safety pressure valve:	10psi check valve
Weight in air:	55Kg
Weight in seawater:	30kg
Payload dimensions:	200mm x 90mm O/D
Allowable temperature range:	-10 °C to +40 °C

